State of California The Resources Agency DEPARTMENT OF WATER RESOURCES DIVISION OF SAFETY OF DAMS

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Weather Conditions Contacts made Al Reason for inspection Important Obsomerate Al Monitor the area is 300 line. Conclusions From the kn and the app completion	chfill feetabovespillwaySunny, hot, can exSamaan, Orov onPeriodic_Evalue ervations, Recommence displaced_ripra to 400 feet_to own_information	Type of Spillway y crest and 95.67 feet alm ille Field Office uation (2 nd inspectations or Actions Take ap on the upstreathe right of the and the visual indeed satisfactor	Gated Conc below d ction) m slope, n sloping i	County Butte rete Weir and Chute am crest. ear the dam crest. The ntake structure buoy the dam, reservoir, tinued use, pending
Item No.*	Item Name and Ob	servation and Commen	ıt	
abutments were in or rodent activity slope was in good to be stable. The However, a relativity indications of she was 300 to 400 fer intake structure using painted surshould be done. The left foundativity last inspection or displacements Terminal S was un piezometer tubes for a rodent probability of the probabilit		e in good conditiculty was observed good condition. This is support atively small are shallow sliding feet right of the	continues. House T was satisfactory, except colem that will be eliminated. Consider Dam, Parish Camp Saddle Dam - The colem Last January. A second inspection was cry. The tunnel was passing about 14 cfs. The	
	tunnel walls and crown were free of seepage, and appeared to be in very good condition. Water was running about 1-inch deep on the access walkway. Most of which seemed to be coming from a leak in the release valve access plate. The release valve was			
Typed by wmp Date 6/27/02 Co for Book/Owner/USFS/COE Use Field Sheet Standard Numbers and Items (See Reverse Side)		ć	Inspected by Whermingt or Date of Inspection 6/13/02 Date of Report 6/27/02 Photos taken? Yes X No	
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INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Dam No 1-48

Date of Inspection 6/18/02 **Observations and Comments (Continued)** Item No.* Item Name and Observation and Comment Palermo Tunnel cont. - leaking quite a bit, but remains functional. The guard valve appeared to be in satisfactory condition. 6,8,10 Spillway - The chute and walls were observed from the roadway deck and the upper chute floor. No signs of distress or misalignment were noted. The gate and mechanical equipment appeared to be in satisfactory condition, as did the gate superstructure. An exception was the ongoing deterioration of the bridge supports, as shown in photograph 1. This is getting to the point where a repair should be considered. Modification of gates 5 through 8 is on schedule. contractor was preparing to sand blast structural plate inside a tent constructed for the purpose on the chute floor. control was necessary to divert leakage from gate seals and stoplogs. The right side seal on gate 3 was producing most of the leakage. Gate 8 - The trunnion beam has been installed. Removal and replacement of the trunnion anchor bearing pads was complete. Welding of structural plate reinforcement was in progress. Gate 7 - Structural repairs and application of the prime coat were complete. Gate 5 - The paint coating has been removed from the trunnion anchors, and the lifting frame has been installed. 14,16 Outlet - Five turbines we running. Unit 1 was out for replacement of the runner. The river outlets were closed. sloping intake was not visited, but will be during the next inspection. I requested that I be contacted when the river outlet valves are tested following completion of repairs at unit one. I will inspect the outlet valves at that time. 17 Seepage - No indications of seepage were observed on the dam embankment or groins. Seepage started at elevation 798 in the left gallery. Total seepage at the gallery sump has been steady for the last month. The drainage in the emergency exit tunnel appeared to be about the same as usual. Seepage at House T and Terminal S was as expected. A known, clear, seep of several gallons per minute was observed on the slope adjacent to the Palermo Tunnel control house. The source appears to be the tunnel outlet channel. Author/Typist WMP/wmp Sheet 2 of 3 Sheets

Name of Dam Oroville

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Oroville Dam No 1-48 Date of Inspection 6/18/02 **Observations and Comments (Continued)** Item No.* Item Name and Observation and Comment Instrumentation - The latest data submitted by O&M is an 18 Instrumentation Performance Data and Evaluation report that includes data thru December 2001. This office has not completed a recent Instrumentation Data Review (IDR). Hydraulic piezometers: Most of the hydraulic piezometers have failed or are unreliable. Those still functioning remain within historical limits. Partly in response to this situation, the last Dam Safety Review Board recommended that the Department rely on seepage data and surface monuments to assess the performance of the dam. O&M is currently reviewing the instrument program for the Oroville/Thermalito complex and plans to make appropriate changes. Seepage: Combined internal drainage and total seepage at the toe weir have tracked the reservoir level and have remained within the historic range. Embankment settlement and horizontal movement: The movements appear to be consistent with historical trends, and indicate that the dam is stable.

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Author/Typist WMP/wmp



1. This view of the right bridge abutment shows recent deterioration of the bridge support. Consideration should be given to devising a repair.

Oroville Dam, No. 1-48 Butte County WPennington 6-18-02